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APPLICANTS
Schneider et al.

FILING DATE
July 15, 1998

GROUP
1619

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	ISSUE DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
<i>JD</i>	AA	5,149,319	9/22/92	Unger			
<i>JD</i>	AB	5,209,720	5/11/93	Unger			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
<i>JD</i>	BA	WO 89/05160 (PCT DE 988/00751) (Fritzsche)	6/15/89	PCT			X	
<i>JD</i>	BB	DE A 41 27 442 (Gross)	2/18/93	Germany			X	
<i>JD</i>	BC	EP A 131 540 (Rasor & Tickner)	1/16/85	EP			X	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

Hartley

DATE CONSIDERED

2/6/2002

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

AGG	4,235,871	11/25/80	Papahadjopoulos , et al.			
AHH	5,409,688	4/25/95	Quay			
AII	5,393,524	2/28/95	Quay			
AJJ	4,442,843	4/17/84	Rasor			
AKK	4,657,756	4/14/87	Rasor			
ALL	4,681,119	7/21/87	Rasor			
AMM	5,141,738	8/25/92	Rasor			
ANN	5,425,366	6/20/95	Reinhardt			
AOO	5,501,863	3/26/96	Rössling et al.			
APP	5,593,687	1/14/97	Rössling et al.			
AQQ	4,544,545	10/1/85	Ryan			
ARR	4,900,540	2/13/90	Ryan et al.			
ASS	4,224,179	9/23/80	Schneider			
ATT	4,229,360	10/21/80	Schneider			
AUU	5,271,928	12/21/93	Schneider			
AVV	5,380,519	1/10/95	Schneider			
AWW	5,413,774	5/9/95	Schneider			
AXX	5,445,813	8/29/95	Schneider			
AYY	5,531,980	7/2/96	Schneider			
AZZ	5,643,553	7/1/97	Schneider			
AAAA	5,658,551	8/19/97	Schneider			
ABBB	5,567,414	10/22/96	Schneider			
ACCC	5,639,443	6/17/97	Schutt et al.			
ADDD	5,195,520	3/23/93	Schlieff			
AEEE	5,380,411	1/10/95	Schlieff			
AFFF	3,968,203	7/6/76	Spitzer			
AGGG	5,425,366	6/20/95	Stein			
AHHH	4,265,251	5/5/81	Tickner			
AIII	4,316,391	2/23/82	Tickner			
AJJJ	4,276,885	7/7/81	Tickner et al.			
AKKK	5,088,499	2/18/92	Unger			
ALLL	5,123,414	6/23/92	Unger			
AMMM	5,874,062	2/23/99	Unger			
ANNN	5,776,429	7/7/98	Unger et al.			
AOOO	5,352,436	10/4/94	Wheatley			
APPP	4,844,882	7/4/89	Widder et al.			
AQQQ	5,556,610	9/17/96	Yan et al.			

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No date	BA	ZA 910961 (Albayrak)		South Africa				
	BB	EP A 458 745 (Bichon et al.)	11/27/91	EP				

BC	EP 359 246 (Cerny)	3/21/90	EP				
BD	EP 359 246 A3 (Cerny)	3/21/90	EP				
BE	GB 1,044,680 (Dow Chemical)	10/5/66	Great Britain				
BF	WO 84/02838 (Feinstein)	8/2/84	PCT				
BG	WO 89/05160 (PCT DE 988/00751) (Fritsch)	6/15/89	PCT				X
BH	WO 92/05806 (Giddey)	4/16/92	PCT				
BI	WO 92/19273 (EP 0 583 390) (Goldenberg)	11/12/92	PCT				
BJ	DE A 41 27 442 (Gross)	2/18/93	Germany				X
BK	CA 1239092 (Hilman)	7/12/88	CA				
BL	CA 1232837 (Hilman)	2/16/88	CA				
BM	WO 91/12823 (Illum et al.)	9/5/91	PCT				
BN	WO A 92/17212 (EP 0 576 519) (Klaveness)	10/15/92	PCT				
BO	WO 92/17213 (EP 0 576 521) (Klaveness)	10/15/92	PCT				
BP	WO 92/21382 (EP 0 586 524) (Klaveness)	12/10/92	PCT				
BQ	CA 2077383 (EP 0535387) (Krone)	3/4/93	Canada				
BR	WO 93/5819 (EP 0 605 477) (Quay)	4/1/93	PCT				
BS	WO 94/16739 (Quay)	8/4/94	PCT				
BT	WO 88/7365 (Ranney)	10/6/88	PCT				
BU	EP A 131 540 (Rasor & Tickner)	1/16/85	EP				X
BV	GB 213 5647 (Ridgway)	9/5/84	Great Britain				

AW	BW	WO 91/157 (Schneider)	10/17/91	PCT				
BX	BX	EP A 554 213 (Schneider)	4/8/93	EP				
BY	BY	WO-A-85/02772 (Schroder)	7/4/85	PCT				
BZ	BZ	NZ 253115 (Stein)	1/26/96	New Zealand				
BAA	BAA	WO 92/18164 (Sutton)	10/29/92	PCT				
BBB	BBB	WO-A-80/2365 (Tickner et al.)	11/13/80	PCT				
BCC	BCC	WO 91/09629 (Unger)	7/11/91	PCT				
BDD	BDD	WO 92/22247 (Unger)	12/23/92	PCT				
BEE	BEE	WO 92/17514 (Unger)	10/15/92	PCT				
BFF	BFF	WO 93/06869 (Vanderipe)	4/15/93	PCT				
BGG	BGG	EP A 324 938 (Widder et al.)	7/26/89	EP				

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CA	Biochemistry/Ed. Stryer - 2 Ed., San Francisco, Freeman, pp. 208-09 (1981)
CB	Concise Encyclopedia Of Polymer Sci. and Engin., Wiley, pp. 12-13 (1990)
CC	Encyclopedia of Polymer Science and Engineering, 2nd ed., 10, p. 95, Wiley & Sons, 1987)
CD	Encyclopedia of Polymer Science and Engineering, pp. 164-69, Wiley & Sons, 1985
CE	"Freon" Fluorocarbons Properties and Applications," <u>DuPont Technical Bulletin</u> , pp. 1-11 (1964)
CF	"Freon" <u>DuPont Technical Bulletin</u> , pp. 1-10 (1987)
CG	Gas Encyclopedia, Elsevier Publisher (1976), CCIF3
CH	Handbook of Pharmaceutical Excipients: Am. Pharm. Ass. 181-183 (1986)
CI	"Lecithin" in Rompp Chemie Kexikon, p. 2474 (1989-92)
CJ	"Lecithin" in Blakiston's Gould Medical Dictionary, 4th Ed., N.Y., McGraw-Hill., p. 749 (1979)
CK	"Lecithin" in Dorland's Illustrated Medical Dictionary, 26 Ed., Philadelphia, Saunders, p. 721 (1981)
CL	Remington's Pharmaceutical Sciences: Mack Publ. Comp., 295-298: 736; 1242-44 (1975)
CM	Barnhart et al., <u>Invest. Radiol</u> , 25, 162-164 (1990) "Characterics of Albunex"
CN	Benita et al., <u>Journal of Pharmaceutical Science</u> , 73, pp. 1721-1724 (1984) "Characterization of Drug Loaded Polydilactide Microspheres"
CO	Bleeker, et al., <u>J. Acoust. Soc. Am.</u> , 87 (4), Apr. 1990, pp. 1792-1797, "Ultrasonic characterization of Albunex®..."
CP	Bleeker, et al., 1990 <u>J. Ultrasound Med.</u> , 9:461-471, (1999), "On the Application of Ultrasonic Contrast Agents..."

Q	CQ	Bommer et al., Abstract of the 54 Scient. Sessions, <u>Circulation</u> 64, - 203, Abst. 770 (1981)
P	CR	Crommelin et al., <u>Pharm. Res.</u> , pp. 159-163 (1984) "Stability of Liposomes on Storage ..."
S	CS	Crommelin et al., <u>Liposomes as Drugs Carriers Symp.</u> , pp. 88-93 (1986) "Freezing and Freeze Drying of Liposomes"
T	CT	de Gruyter, "Phospholipids", <u>Concise Encyclopedia of Biochemistry</u> , Berlin, pp. 348-49 (1983)
U	CU	deJong, et al., <u>Ultrasonics</u> , 1992, Vol. 30, No. 2, pp. 95-103, "Absorption and scatter of encapsulated gas filled microspheres ..."
V	CV	deJong, et al., <u>Ultrasonics</u> , 1991, Vol. 29 Jul., pp. 324-330, "Principles and recent developments in ultrasound"
W	CW	Edwards, et al. <u>J. Acoust. Soc. Am.</u> , Vol. 70, No. 3 (1983), "Scattering of focused ultrasound by spherical microparticles"
X	CX	Epstein, et al., <u>J. Chem. Physics</u> , Vol. 18, No. 11, pp. 1505-1509, Nov. 1950, "On the Stability of Gas Bubbles in Liquid-Gas Solutions"
Y	CY	Feinstein, et al., <u>JACC</u> , Vol. 16, No. 2, 8/90:316-24, "Safety and Efficacy of a New Transpulmonary Ultrasound Agent...", <u>Amer. Hearts Assn. Monograph Circulation</u> , Part II, Vol. 72, No. 4, Oct. 1985, Abstracts of the 58 th Scientific Ses.
Z	CZ	Feinstein, et al., <u>Am. J. of Physiologic Imaging</u> , 1:12-18 (1986), "Myocardial Contrast Echocardiography ..."
AA	CAA	Feinstein, <u>J. of the Amer. Coll. of Cardiol.</u> , 8:251-253 (1986) "Myocardial Perfusion Imaging ..."
BB	CBB	H. Fessi, et al., "Nanocapsule formation by interfacial polymer deposition...", <u>Int. J. Pharm.</u> , 1989, Vol. 55, No. 1, pp. R1-R4
CC	CCC	Fieser and Fieser, <u>Organic Chemistry</u> , 3rd ed. (1956) p. 847
DD	CDD	Fobbe, et al., <u>Fortschr. Rontgenstr.</u> , 154.3 (1991) 242-245, "Farbkodierte Duplexsonographische und Ultraschallkontrast mittel ..."
EE	CEE	Ganguly et al., "Structure of hollow polystyrene microspheres..." <u>J. Microencapsulation</u> , Vol. 6, No. 2, 193-198 (1989)
FF	CGG	Gardner, et al., (1988), "A Survey of Intraocular Gas Use in North America," <u>Arch. Ophthalmol.</u> , 106:1188-1189
GG	CGG	Goldberg et al., <u>Radiology</u> , 177, pp. 713-7 (1990) "Hepatic Tumors ..."
HH	CHH	Helzel, <u>Fortschr. Rontgenstr.</u> , 140, pp. 337-340 (1984) "Erste Erfahrungen ..."
II	CII	Henry-Michelland et al., <u>Colloids and Surfaces</u> , 14, pp. 269-276 (1985) "Lyophilization and Rehydration of Liposomes"
JJ	CJJ	Jacobs, "Intraocular gas measurement using A-scan ultrasound," <u>Current Eye Research</u> , Vol. 5, No. 8, 1986, pp. 575-578
KK	CKK	Keller et al, <u>Circulation Res</u> , 65, 458-467 (1989) "The Behavior of Sonicated Albumin ..."
LL	CLL	Krause et al., <u>International Journal of Pharmaceutics.</u> , 27, pp. 145-155 (1985) "Polylactic acid nanoparticle. ..."
MM	CMM	Levene et al, <u>J. Acoust. Soc. Am.</u> , 87 (Suppl) 69 (1990) "Characterization of Albunex ..."
NN	CNN	Lincoff, et al., "Intravitreal Longevity of Three Perfluorocarbon Cases, <u>Arch. Ophthalmology</u> , 98:1610-1611 (1980)
OO	COO	Lincoff, et al., "Intravitreal Expansion of Perfluorocarbon Bubbles," <u>Arch. Ophthalmology</u> , 98:1646 (1980)

	CPP	Lincoff, et al., "The Perfluorocarbon Gases in the Treatment of Retinal Detachment," <u>Ophthalmology</u> , 90(5):546-551 (1983)
N	CQQ	Lincoff, et al., "Perfluoro-n-butane: A Gas for Maximum Duration Retinal Tamponade," <u>Arch. Ophthalmology</u> , 101:460-463 (1983)
P	CRR	K. Makino, "Preparation and in vivo degradation properties...", <u>Chem. Pharm. Bull.</u> , (1985), Vol. 33, No. 3, pp. 1195-1201
V	CSS	Mattrey et al., <u>Radiology</u> , 148, pp. 759-762 (Dec. 1982) "UHM Sound; Perfluorooctylbromide ..."
E	CTT	<u>Chem Abs.</u> , Vol. 102. No. 3, 21 (Jan. 1985), Maynard et al., "Ultrasonic absorption by liposomes"
A	CUU	Meltzer, et al., <u>Ultrasound in Med. & Biol.</u> , Vol. 7, No. 4, pp. 377-384, 1981, "Transmission of Ultrasonic Contrast Through the Lungs"
D	CVV	Miller et al., <u>J. Amer. Soc. Anesthesiol.</u> , 36 339-351 (1971) "Physicochemical Approaches ..."
Φ	CWW	Möhwald, <u>Annu. Rev. Phys. Chem.</u> , 41, 441-76 (1990) "Phospholipid and Phospholipid-Protein Monolayers At The Air/Water Interface"
Φ	CXX	Murrell et al, "Properties of liquids and solutions", Wiley, p. 276 (1982)
G	CYY	Nomura, et al., "US Contrast Enhancement of Hepatic Tumor with Helium Gas Microbubbles: A Preliminary Report," <u>Jpn. J. Med. Ultrasonics</u> , Vol. 18, No. 5, 1991, pp. 444-450
Φ	CZZ	O'Hara et al, <u>Journal of Membrane Science</u> , 23 (1985) 1-9, "Preparation of ethylcellulose..."
B	CAAA	Ohta, et al., <u>Jpn. J. Med. Ultrasonics</u> , Vol. 18, No. 4 (1991), "Effect of the Contrast Agent and the Agitation Met."
Φ	CBBB	Ophir, et al., <u>Ultrasound in Med. & Biol.</u> , Vol 15, No. 4, pp. 319-333, 1989, "Contrast Agents in Diagnostic Ultras."
Φ	CCCC	Ostro in <u>Spektrum d. Wiss</u> , 94-95, 98 (Marz 1987). "Liposomen ..."
Φ	CDDD	Özer et al., <u>Acta Pharm. Tech.</u> 34, pp. 129-139 (1988) "Influence of Freezing and Freeze Drying on Stability of Liposome ..."
Φ	CEEE	Park, et al., <u>Journal of Chemical And Engineering Data</u> , Vol. 27, No. 3 (1982), "Solubility of Gases in Liquids. 14. Bunsen Coefficients for Several Fluorine-Containing Gases (Freons) Dissolved in Water at 298.15K"
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B	CGGG	Puisieux et al., <u>Bull. Soc. Pharm. Bordeaux</u> , 123, pp. 111-126 (1984) "Les Liposomes ..."
B	CHHH	Rompp Lex. Chemie. 8 Aufl. Stuttgart: Franckh; Bd. Z: Cm-G, (1981): Bd 3; H-L, (1983); Bd 4, M-Pk (1985) "Porositat"
NO data	CHH	Rompps Chemie Lexikon, "Phospholipide"
	CJJJ	Schliep, <u>Current Opinion in Radiology</u> , 1993, 3:198-207, "Ultrasound Contrast Agents"
B	CKKK	Schneider, et al., <u>Investigative Radiol.</u> , 26(1), pp. S190-91 (1991) "A New Ultrasound Contrast Agent Based on Biodegradable Polymers Microballoon"
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B	CMMM	Swanson, pp. 682-687, "Chapter 22: Enhancement Agents for Ultrasound: Fundamentals," <u>Pharmaceuticals In Medical Imaging</u> , (1990)
B	CNNN	Szoka et al, <u>PNAS</u> 75, pp. 4194-4198 (Sept. 1978) "Procedure for preparation of Liposomes ..."

J	COOO	Tomlinson et al. J. Pharm. Tech. & Prod. Mfr., 2, p. 49-57 (1983) "Microsphere Delivery Systems ..."
J	CPPP	Ulmius et al, Biochem., 21, p. 1553 (1982) "Molecular organization ..."
J	CQQQ	K. Uno, et al., "A new method of preparing monocored...", J. Microencapsulation, 1984, Vol. 1, No. 1, pp. 3-8
J	CRRR	Violante, et al., Investigative Radiology, Vol. 26, Nov. Supp 1991, "Particle-Stabilized Bubbles for Enhanced Organ Ultrasound Imaging"
J	CSSS	Voigt et al., "Lzithine" in Lehrb. d. pharm. Tech. i, uberarb. Aufl. - Weinheim; VCH, p. 367 (1979)
J	CTTT	Wheatley et al, Biomaterials 11, pp. 713-17 (1990) "Contrast agents for diagnostic ultrasound ..."
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N. date	CVVV	Fiedler, Lexikon der Hiffstoffe, 4. Auflage, 1-82-85
J	CWWW	Zhang, et al., J. East China Inst. Chem. Tech., 12(3) 343-345 (1986) "A Study on the Solubilities of F22 and C2F4 in Aqueous Solutions of HCl and NaCl"
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